

FIG. 1 Voice Mail System ¹⁰¹
Caller ¹⁰⁰

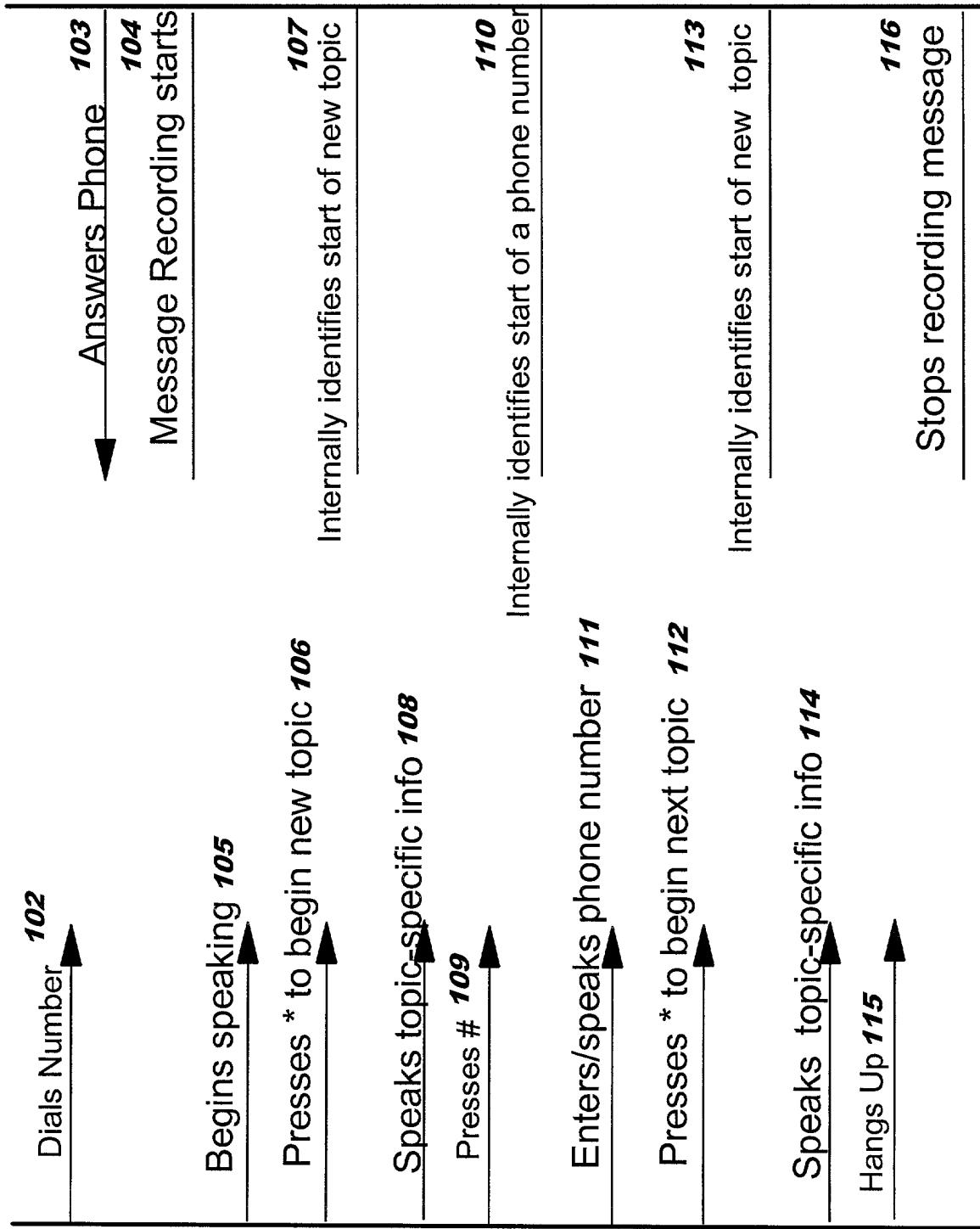


FIG. 2A

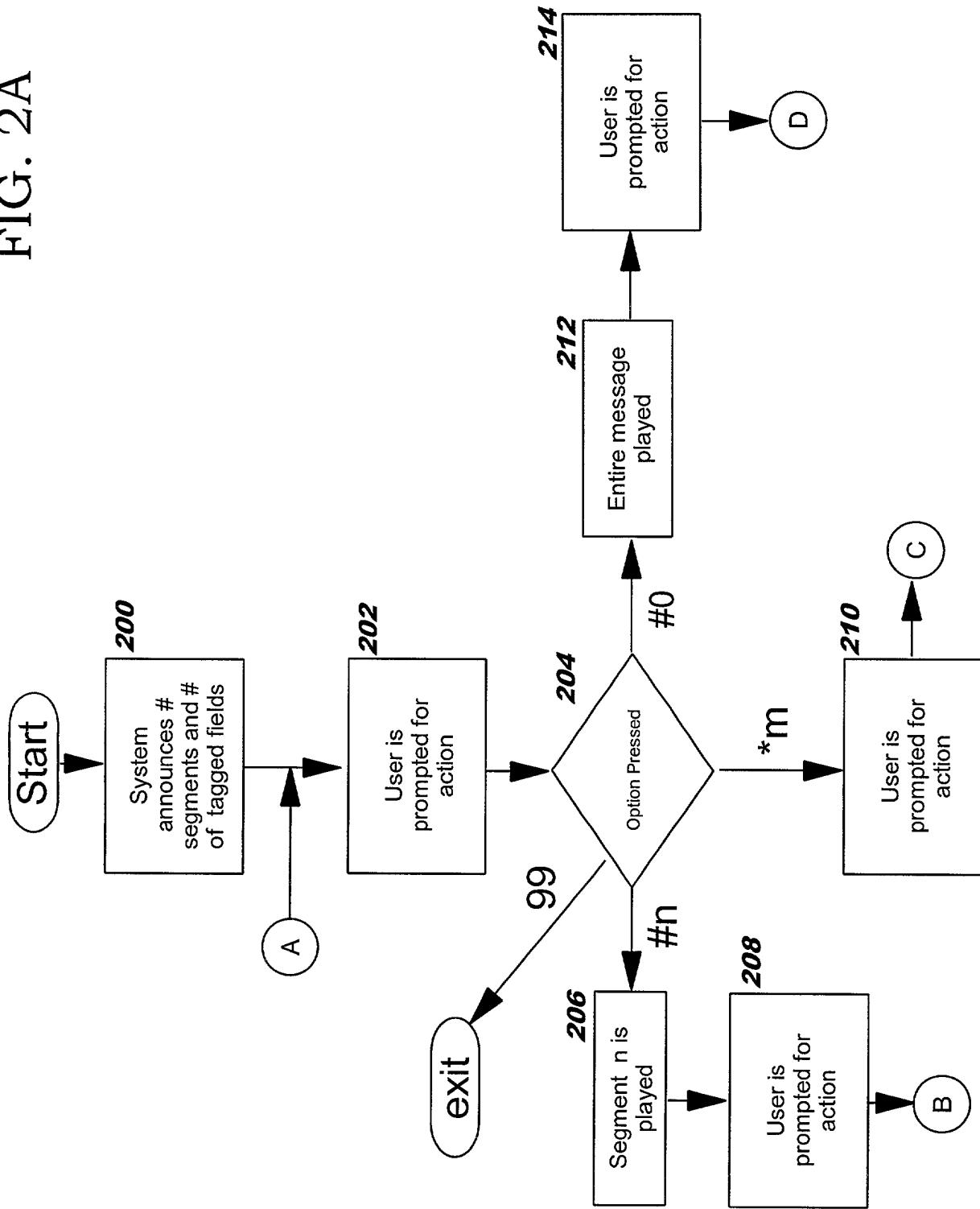


FIG. 2B

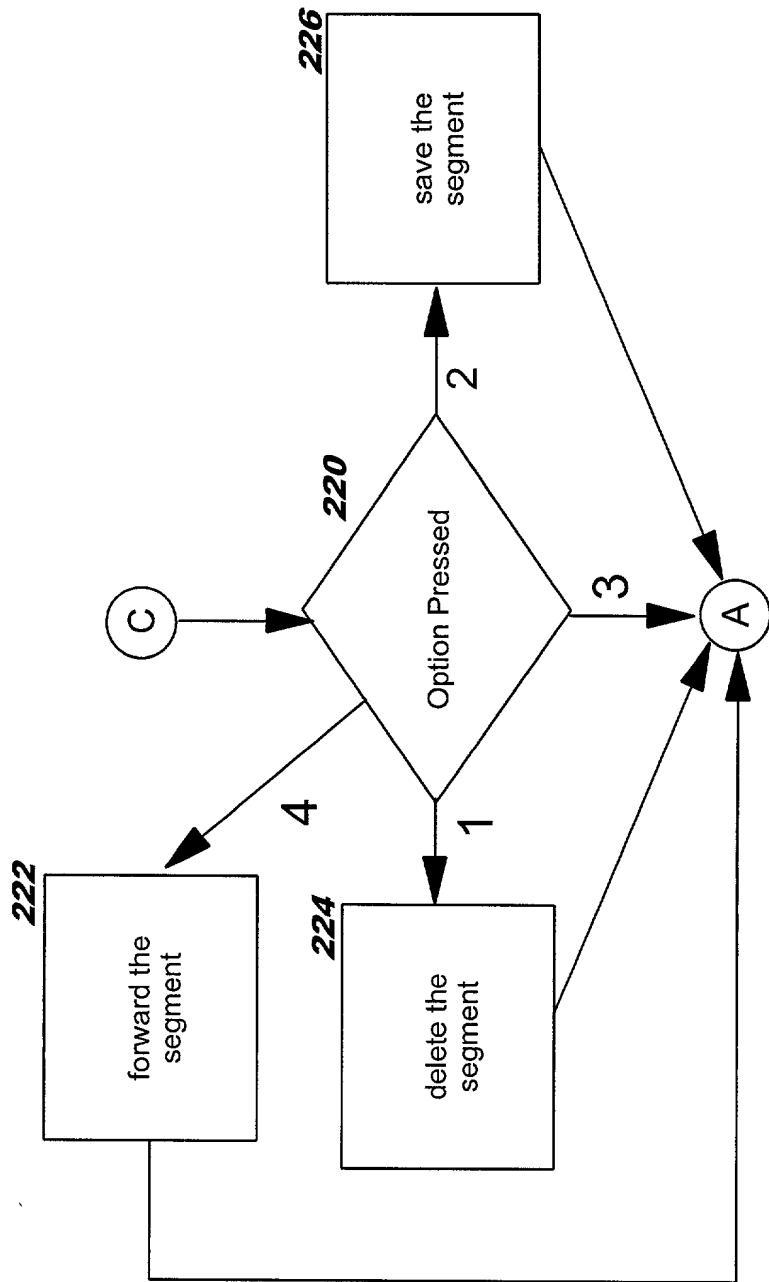


FIG. 2C

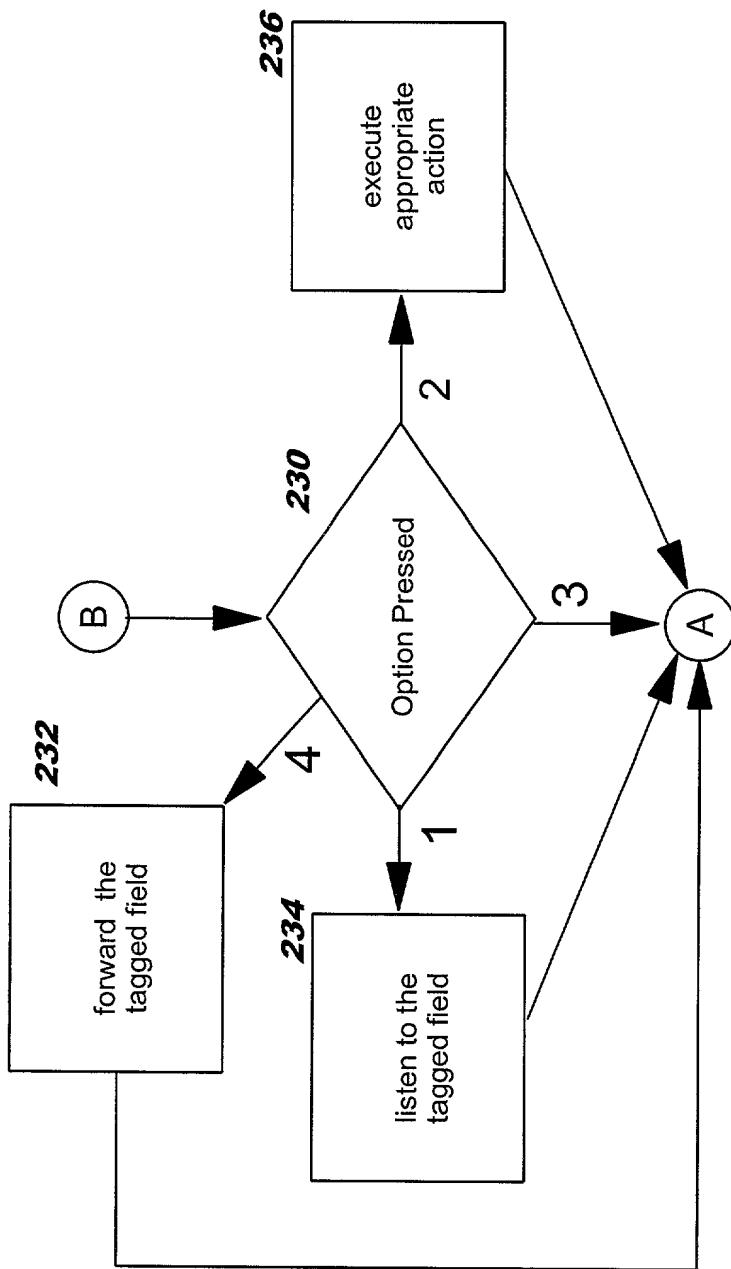
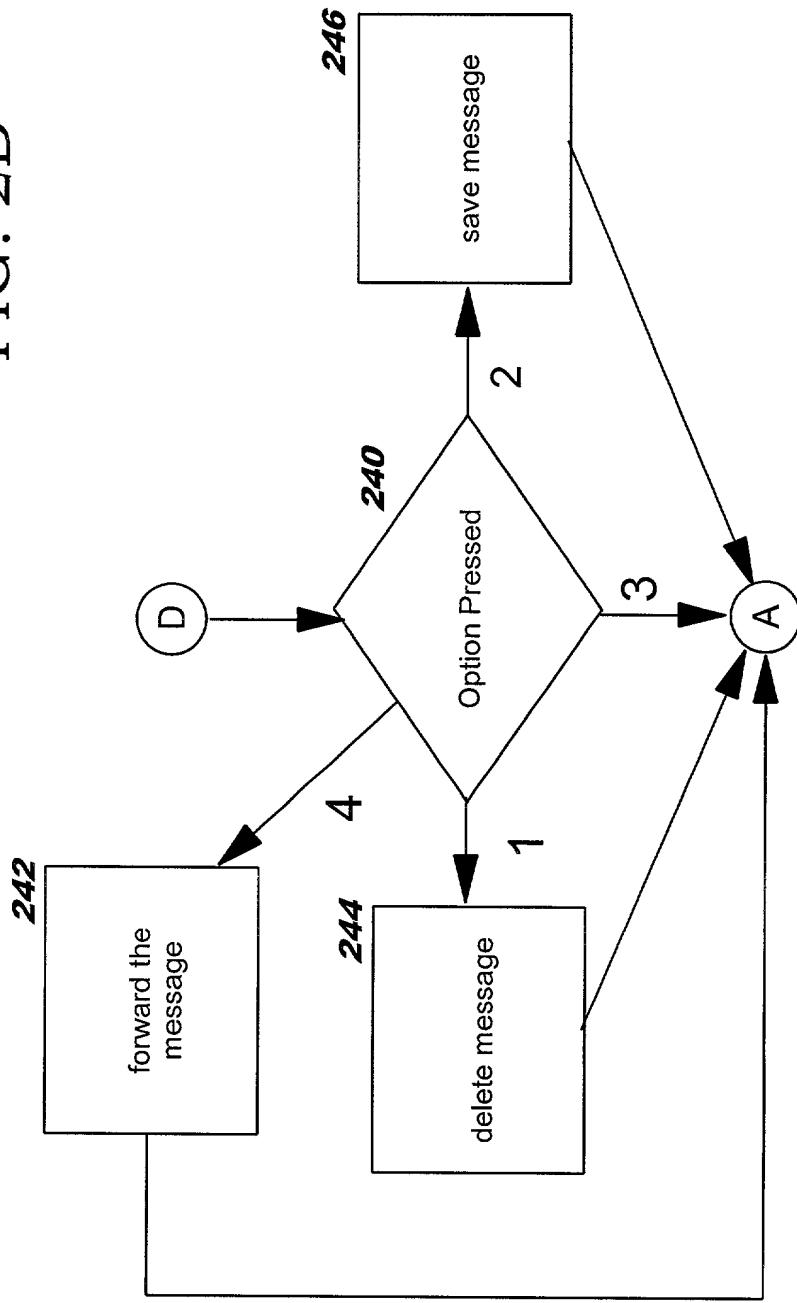


FIG. 2D



To listen to the entire message, press #0.
To listen to segment n, press #n.
To access options for tagged field m, press *m.
To exit, press 99.

FIG. 3A

To delete this segment, press 1.
To save this segment, press 2.
To continue, press 3.
To forward this segment, press 4.

FIG. 3B

To delete this message, press 1.
To save this message, press 2.
To continue, press 3.
To forward this message, press 4.

FIG. 3C

To listen to a tagged field, press 1.
To execute an action, press 2.
To continue, press 3.
To forward this tagged field, press 4.

FIG. 3D

FIG. 4

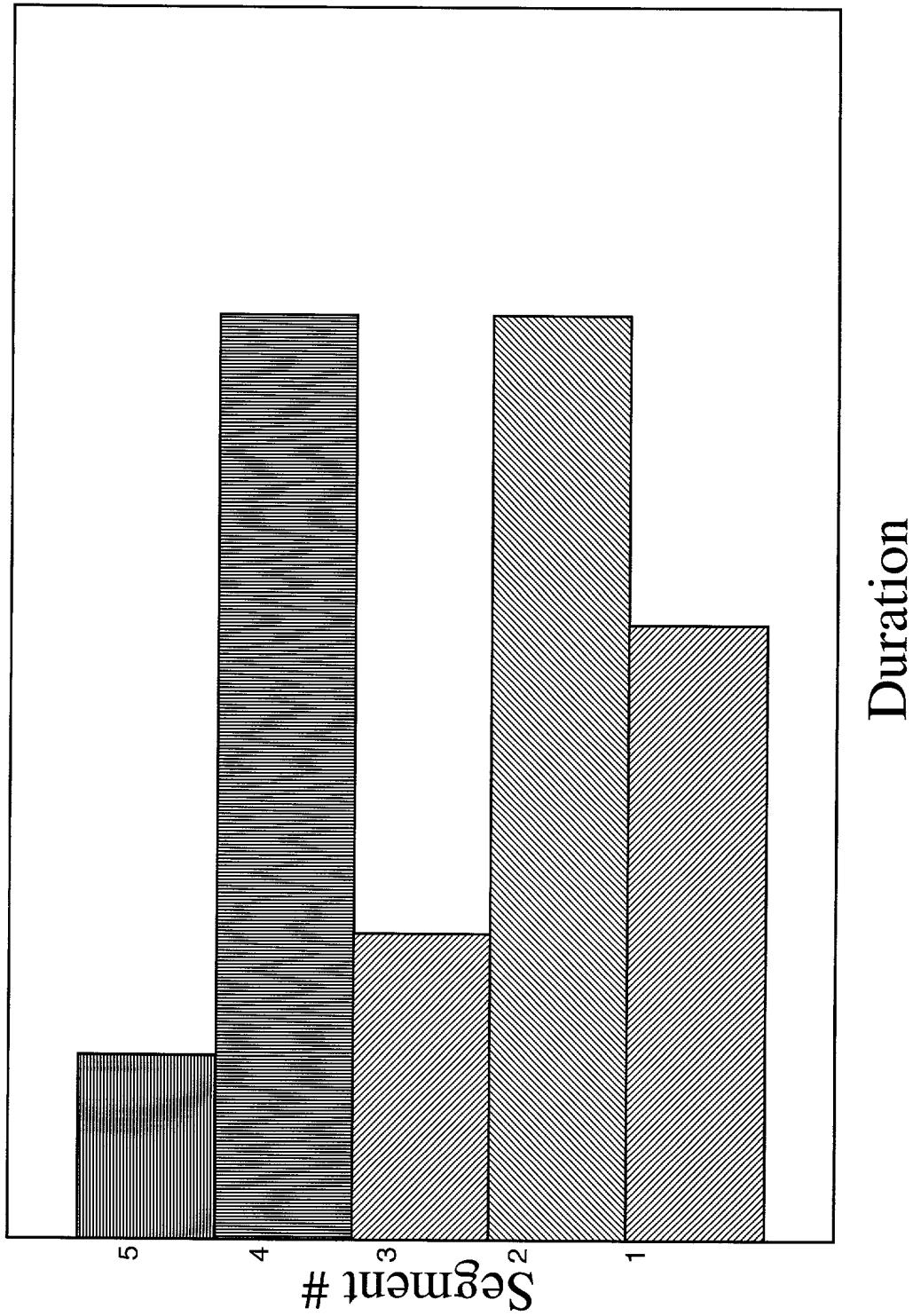


FIG. 5A

```
500 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */  
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */ 501  
  
Struct tagged_field 502  
{  
    Int tagged_field_type; /* phone number, email addr, url, etc.  
    FILE *tagged_field_loc; /* location of data for this tagged field  
    /* this could alternately be stored in this structure. */  
}  
  
Struct vmail_segment 503  
{  
    FILE *data_loc; /* location of data for this part of the voice mail */  
    /* this could alternately be stored in this structure. */  
  
    Struct tagged_field tagged_field_array[MAX_TAGS_ENTRIES];  
}  
  
Struct vmail_segment vmail_array[MAX_VMAIL_SEGMENTS]; 504
```

FIG. 5B

```
510 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */  
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */ 511  
  
Struct tagged_field 512  
{  
    Int tagged_field_type; /* phone number, email addr, url, etc.  
    Int tagged_field_offset; /* offset of the tagged field in data_loc  
    Int tagged_field_length; /* need to know where the end of the field is  
}  
  
Struct vmail_segment 513  
{  
    FILE *data_loc; /* location of data for this segment of the voice mail  
    /* this could alternately be stored in this structure. */  
    Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];  
}  
  
Struct vmail_segment vmail_array[MAX_VMAIL_SEGMENTS],514
```

FIG. 5C

520 FILE *vmail_msg; **521**

FIG. 5D

```
530 #define MAX_VMAIL_ELEMENTS 1000 /* arbitrary value */ 531
FILE *vmail_array[MAX_VMAIL_ELEMENTS],532
```

```
540 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */  
#define MAX_TAGGED_ENTRIES 50 /* arbitrary value */ 541  
  
Struct tagged_field 542  
{  
    Int tagged_field_type; /* phone number, email addr, url, etc.  
    FILE *tagged_field_loc; /* location of data for the tagged_field  
    /* this could alternately be stored in this structure. */  
}  
  
Struct vmail_segment 543  
{  
    FILE *data_loc; /* location of data for this part of the voice mail */  
    /* this could alternately be stored in this structure. */  
}  
  
Struct tagged_field tagged_field_array[MAX_TAGGED_ENTRIES];  
  
Struct vmail_msg_struct 544  
{  
    FILE *caller_name;  
    FILE *caller_phone_number;  
    Struct vmail_segment vmail_segment_array[MAX_VMAIL_SEGMENTS];  
} vmail_msg;
```

FIG. 5E

FIG. 5F

```
550 #define MAX_VMAIL_SEGMENTS 1000 /* arbitrary value */ 551
552
Struct vmail_msg_struct
{
    FILE *caller_name;
    FILE *caller_phone_number;
    FILE *desired_callback_time;
    FILE *vmail_segment_array[MAX_VMAIL_SEGMENTS];
} vmail_msg;
```

FIG. 5G

560 #define MAX_VMAIL_ELEMENTS 1000 /* arbitrary value */ **561**

Struct vmail_segment **562**

```
{  
    INT    importance_level; /* importance level associated w/each segment - default */  
           /* may be set to 5 (average). */  
    FILE *data_loc;          /* location of data for this element of the voice mail */  
           /* this could alternately be stored in this structure. */  
}
```

Struct vmail_segment *vmail_array[MAX_VMAIL_ELEMENTS]; **563**